

TABLE 13

**Domestic R&D paid for by the company and others and performed by the company, by source of funds and state: 2019**

(Millions of U.S. dollars)

State	Total	Paid for by the company	Paid for by others			
			Total	Federal	Nonfederal	
All states	492,956	428,968	63,989	21,941	42,048	
Alabama	2,423	1,191	1,232	1,155	77	
Alaska	49	41	8	4	5	
Arizona	6,403	4,570	1,832	1,106	726	
Arkansas	461	397	64	28	36	
California	171,961	158,850	13,111	4,713	8,397	i
Colorado	6,070	5,208	862	598	264	
Connecticut	7,421	6,171	1,250	892	357	
Delaware	2,156	1,436	720	5	715	
District of Columbia	412	277	135	111	23	
Florida	7,259	5,611	1,648	870	778	
Georgia	4,844	3,924	920	97	822	i
Hawaii	159	86	73	19	54	
Idaho	2,697	2,608	89	6	83	i
Illinois	14,112	13,383	729	74	655	
Indiana	7,952	6,895	1,057	130	927	
Iowa	3,087	2,285	802	641	161	i
Kansas	2,748	1,857	891	11	880	i
Kentucky	1,481	939	541	216	325	
Louisiana	703	534	168	121	48	
Maine	417	373	44	14	30	i
Maryland	5,852	4,248	1,604	1,042	563	
Massachusetts	30,843	25,955	4,888	1,170	3,718	
Michigan	21,283	18,918	2,364	237	2,127	
Minnesota	8,026	7,547	479	101	378	
Mississippi	324	276	48	19	30	i
Missouri	6,344	4,150	2,194	2,036	157	i
Montana	205	176	29	11	17	
Nebraska	795	735	60	11	49	
Nevada	1,045	829	216	34	183	
New Hampshire	2,541	1,036	1,505	1,333	171	
New Jersey	20,390	16,648	3,742	195	3,547	
New Mexico	637	391	245	202	43	
New York	20,180	17,968	2,212	759	1,453	i
North Carolina	13,249	9,188	4,061	140	3,920	i
North Dakota	349	340	9	2	7	e
Ohio	10,642	7,087	3,555	765	2,789	i
Oklahoma	1,067	956	111	41	70	i
Oregon	7,890	7,606	284	54	230	
Pennsylvania	15,245	13,353	1,892	219	1,673	i
Rhode Island	715	664	52	36	16	
South Carolina	1,784	1,527	257	86	171	
South Dakota	194	170	24	4	20	
Tennessee	1,663	1,381	282	55	228	
Texas	23,906	20,916	2,990	772	2,219	
Utah	2,857	2,463	394	78	316	i
Vermont	244	218	26	7	19	
Virginia	6,061	4,276	1,785	1,324	461	i
Washington	37,330	35,823	1,507	252	1,255	i

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					Total	Federal	Nonfederal		
West Virginia	246	i	219	i	27	10	17		
Wisconsin	6,517		5,679		837	97	741		
Wyoming	686		670		16	5	11		
Undistributed <sup>a</sup>	1,034		916		117	34	84		

e = > 50% of value is modeled—see Technical Notes; i = > 50% of the estimate is a combination of imputation and reweighting to account for nonresponse.

<sup>a</sup> Includes data reported that were not allocated to a specific state by multi-establishment companies. For single-establishment companies, data reported were allocated to the state in the address used to mail the survey form.

**Note(s):**

Detail may not add to total because of rounding. For a given estimate in this table, if the conditions are satisfied for both the "i" and "e" flags, the e flag is assigned because the imputation rate may be found in the corresponding table of imputation rates. Beginning in survey year 2018, statistics are representative of companies located in the United States that performed or funded \$50,000 or more of R&D. This change has affected the comparability of these estimates with estimates published for years prior to 2018.

**Source(s):**

National Center for Science and Engineering Statistics and Census Bureau, Business Enterprise Research and Development Survey, 2019.